

ATO-NDJ Series Viscometer



ATO-NDJ series digital rotary viscosity operation features more convenience, more accurate value measurement, more complete functions.

With LCD backlight display, program setting, automatic control, timing measurement, automatic scanning, error alarm and other functions. The screen shows the viscosity, temperature, timing measurement time, speed, rotor number, percent ratio, torque range of measurement to the viscosity and other information. The full range viscometer and the block linearity all through the computer interface with the standard silicone oil measurement correction, to ensure that the instrument has high sensitivity, high precision, high repetition. The measured data is accurate and reliable, with good reproducibility.

The apparent viscosity of absolute viscosity or non Newton type liquid can be measured. The Newton type liquid viscometer data processing software can be summarized for rheological properties of non Newton liquid.

The instrument is widely used in grease, paint, paint, textile, food, slurry, medicine, cosmetics and other adhesives, fluid, semi fluid production industry and scientific research units.

Main features:

1. Measurement data direct displays on LCD screen, does not require two calculations.
2. Using the latest international microcomputer drive technology, import stepper motor, accurate speed, smooth and reliable.
3. The use of advanced switching power supply technology, wide voltage and frequency range, power fluctuations will not affect measurement accuracy.
4. The level display device is very convenient on the front of the viscometer.
5. All ranges, the display accuracy of viscosity value is accurate to two decimal places, that is, 0.01mPa.S.
6. With the function of timing measurement, it is very useful for detecting non Newtonian liquid.
7. Using small sample adapters, the amount of sample required for each measurement is very small, 18ml.
8. Automatic scanning function, the instrument can automatically recommend the best combination of rotor and speed.
9. Automatically display the maximum range of viscosity that the selected combination can measure.
10. With a print interface, you can directly connect to play micro printing machine, print a variety of data.

11. Optional data processing software, can record real-time viscosity with time, speed or rotor (shear rate), temperature changes vary, which provides a good method to understand the viscosity and rheological properties of non Newtonian liquids.

Technical parameters:

Instrument model	ATO-NDJ-5S	ATO-NDJ-8S
Display mode	Liquid-crystal display	
Speed (r/min)	6/12/30/60	0.3/0.6/ 1.5/3/6/12/30/60
Rotor	1#, 2#, 3#, 4# The 0# rotor is optional, for measuring ultra low viscosity below 15	
Measuring range	1~100,000	1~2,000,000
Sample size required for each measurement	250 – 400ml	
Viscosity display accuracy	0.01mPa.S	
Measurement error	±3% (Newtonian liquid)	
Repetitive error	±1.5% (Newtonian liquid)	
Sample amount	18ml (Each measurement required)	
Timing measurement function	Standard configuration	
Temperature measurement	Standard configuration	
Measurement range display	Can automatically display the maximum viscosity of composite rotor and speed of the selected measurement value	
Constant temperature component	Option (special viscometer constant temperature bath, constant temperature cup, temperature probe, etc.)	
Data output interface	Standard configuration	
Data processing software	Optional	
Working power supply	110V / 60Hz, 220V / 50Hz	
Outline dimension	300 × 300 × 450(mm)	

Optional accessories:

1. Ultra low viscosity adapter (0# rotor)

A set of three pieces (rotor, sample bucket, connecting frame)
Used to measure ultra-low viscosity samples below 15mPa.S
The amount of sample required for each measurement is 18-20ml
The accuracy of measurement is 0.1 mPa.S





2. Temperature probe (temperature sensor)

High precision temperature measuring chip with A/D conversion
Measuring range: 0 - 100 Measurement accuracy: 0.1

3. Micro thermal printer

Can be directly connected with the viscometer
Print data
Print curve



4. Viscometer special thermostatic bath

Model: DC0506N:

Temperature range: -5 °C to 100 °C
Temperature control precision: 0.1 °C



Model: CH1006N:

Temperature control range: room temperature plus 10 °C to 100 °C
Temperature control precision: 0.1 °C



The circular opening can be placed 200ml beaker, direct measurement of viscosity. The outer loop has the function of constant temperature cup can also be controlled constant temperature liquid lead to external, to meet different test requirements.